



State of New Hampshire  
DEPARTMENT OF ENVIRONMENTAL SERVICES  
64 No. Main Street, P.O. Box 2008, Concord, NH 03302-2008  
(603) 271-3406 FAX (603) 271-7894



April 8, 1999  
Letter of Deficiency  
DAM # 149.01

Mr. Edward Hoyt  
Purity Springs Resort  
HC 63 Box 40  
East Madison, NH 03849

Mr. Dale Moore  
Audubon Society of NH  
3 Silk Farm Road  
Concord, NH 03301

RE: Purity Lake Dam, Madison

Dear Mr. Hoyt and Mr. Moore

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. The DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on May 5, 1998. During this visual inspection and/or file review, the following deficiencies were observed:

- 1 There was debris on the left concrete abutment;
- 2 There were trees and brush on the downstream side of the left earth abutment
- 3 There is no erosion resistant material on the left downstream earth embankment. DES was informed that this area is overflowed during times of high flow; and
- 4 There is no operations and maintenance plan on file with the DES.

The DES believes that the above deficiencies can be corrected by performing the following items by August 1, 1999:

- 1 Remove the debris from the left concrete abutment;
- 2 Remove the trees and brush from the downstream side of the left earth abutment;
- 3 Repair the left downstream earth embankment and place erosion resistant material, preferably large sized rip rap, on the crest and left downstream earth embankment to protect the dam during the 50 year storm and other overtopping events; and
- 4 Prepare and submit to the DES a written operational procedure plan. The plan should describe the control of impoundment levels, monitoring and maintenance procedures, and identify emergency contact personnel.

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The DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,

**COPY**  


Nancy L. McGrath  
Engineering Technician

Attachments Guideline for an O&M plan, DB8, DB13

cc: Gretchen Rule

Town of Madison

Certified # Z 786 913 600 & Z 786 913 601

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